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NOTICE OF ALLOWANCE AND FEE(S) DUE

26418 7590 08/27/2002

REED SMITH, LLP
ATTN: PATENT RECORDS DEPARTMENT
599 LEXINGTON AVENUE, 29TH FLOOR
NEW YORK, NY 10022-7650

EXAMINER	
LE, LANA N	
ART UNIT	CLASS-SUBCLASS
2684	455-435000

DATE MAILED: 08/27/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/347,891	07/06/1999	KWANG-HO JUNG	YOO-PN0321	4491

TITLE OF INVENTION: METHOD FOR CONSTRUCTING WVPN (WIRELESS VIRTUAL PRIVATE NETWORK) FOR CDMA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	11/27/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status.
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Box ISSUE FEE**
Commissioner for Patents
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	NO	\$1280	\$0	\$1280	11/27/2002

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LE, LANA N	2684	455-435000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☐ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.**

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UNITED STATES

EXAMINER

LE, LANA N

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 08/27/2002

Determination of Patent Term Extension under 35 U.S.C. 154 (b)
(application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (<http://pair.uspto.gov>)

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EXAMINER

LE, LANA N

ART UNIT PAPER NUMBER

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DATE MAILED: 08/27/2002

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: <http://www.uspto.gov/main/howtofees.htm>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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Notice of Allowability

Application No.

09/347,891

Examiner

Lana Le

Applicant(s)

JUNG ET AL.

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/06/2002.
2. ☒ The allowed claim(s) is/are 4-6.
3. ☒ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. 6.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>2</u> | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

Application/Control Number: 09/347,891

Page 2 8/21/02

Art Unit: 2684

REASON FOR ALLOWANCE***EXAMINER'S AMENDMENT***

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with J. Harold Nissen on 8/14/2002.

The application has been amended as follows:

Regarding claim 4, please add this prior to line 7 page 3 of the after final amendment:

a first sub-step for requesting a telephone of the calling subscriber to the HLR, transmitting a telephone number and extension number to the SCP with respect to the calling subscriber, requesting a MDN information of the receiving subscriber, and judging whether there is a group of the telephone number of the calling subscriber;

Therefore, the whole claim should read as follows:

1. A method for constructing a WVPN (Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone serviced by a private network group, a BTS (Base Transceiver System) for transmitting and receiving a message with the mobile telephone, a BSC (Base Station Controller) for managing the BTS, a MSC (Mobile Switching Center) including a MSA (Mobile Signaling Access), a MCC (Mobile

Call Control), and a VLR (Visitor Location Register), a HLR (Home Location Register), and a SCP (Service Control Point) for storing an extension number with respect to a calling subscriber serviced by a private network group, a method for constructing a WVPN for a CDMA system comprising the steps of:

1) a first step for registering a private network group and extension number to the SCP and judging whether a call by a certain calling subscriber corresponds to an extension number or a MDN (Mobile Directory Number) when a certain calling subscriber calls a certain receiving subscriber of the same group as the calling subscriber;

a second step for constructing a mobile communication network using the MDN in the case that as a result of the first step the call by the calling subscriber corresponds to the MDN and constructing a WVPN in the case that the call by the calling subscriber corresponds to the extension number;

a first sub-step for requesting a telephone of the calling subscriber to the HLR, transmitting a telephone number and extension number to the SCP with respect to the calling subscriber, requesting a MDN information of the receiving subscriber, and judging whether there is a group of the telephone number of the calling subscriber;

a judgement sub-step for judging whether the extension number transmitted to the SCP exists in the group of the calling subscriber in the case that when there is the group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step;

DI and including a sub-step for transmitting a non-available call connection guide message to the calling subscriber in the case that the extension number does not exist in a group of the telephone number of the calling subscriber as a result of a judgement as to whether there is a group of the telephone number of the calling subscriber based on a judgement whether an extension number transmitted to the SCP exists and in the case that the extension number exists in the group of the calling subscriber as a result of a judgement of the judgement sub-step.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Regarding claim 4, the cited prior art, Widergen discloses a method for constructing a WVPN (Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone 122 serviced by a private network group PTN 108, a BTS (Base Transceiver System) in 114 for transmitting and receiving a message with the mobile telephone, a BSC(Base Station Controller) in 114 for managing the BTS, a MSC 112 (Mobile Switching Center) including a MSA (Mobile Signaling access), a MCC (Mobile Call Control) inherently therein, and a VLR (Visitor Location Register) (col 4, lines 67), a HLR (Home Location Register) 110, a SCP (Services Control Point) 110 for storing an extension number with respect to a calling subscriber serviced by a private network group, a method for constructing a WVPN for a CDMA system comprising the steps of:

a first step for registering a private corporate group and short (extension) number to the SCP database 110 (col 4, lines 44-57); and judging whether a call by a certain calling subscriber's terminal CMT corresponds to a PN (personal short extension number) or a regular mobile directory number when a certain calling subscriber 120 calls a certain receiving subscriber 122 of the same corporate group as the calling subscriber in the private wireless office system 142 (col 4, lines 44-60);

a second step for constructing a WVPN (in which the WO Gateway 124 in the private wireless office 142 emulate a PBX/PTN node) in the case that the call by the calling subscriber 120 corresponds to the private extension number PN (col 5, lines 60-66; col 7, lines 55 - col 8, line 20) wherein the second step includes:

a first sub-step for requesting a telephone of the calling subscriber to the HLR/SCP 110, transmitting a telephone number and extension number to the SCP with respect to the calling subscriber (col 6, lines 23-33), requesting a PN information of the receiving subscriber (col 5, lines 60-65), and judging whether there is a corporate group of the telephone number of the calling subscriber (col 5, lines 65-67);

a judgement sub-step for judging whether the extension number transmitted to the SCP exists in the corporate group of the calling subscriber in the case that when there is the group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step (col 8, lines 1-20);

However, the cited prior art fails to disclose further:

including a sub-step for transmitting a non-available call connection guide message to the calling subscriber in the case that the extension number does not exist

Art Unit: 2684

in a group of the telephone number of the calling subscriber as a result of a judgement as to whether there is a group of the telephone number of the calling subscriber based on a judgement whether an extension number transmitted to the SCP exists and in the case that the extension number exists in the group of the calling subscriber as a result of a judgement of the judgement sub-step.

Regarding claim 5, the cited prior art, Widergen discloses a method for constructing a WVPN (Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone 122 serviced by a private network group PTN 108, a BTS (Base Transceiver System) in 114 for transmitting and receiving a message with the mobile telephone, a BSC(Base Station Controller) in 114 for managing the BTS, a MSC 112 (Mobile Switching Center) including a MSA (Mobile Signaling access), a MCC (Mobile Call Control) inherently therein, and a VLR (Visitor Location Register) (col 4, lines 67), a HLR (Home Location Register) 110, a SCP (Services Control Point) 110 for storing an extension number with respect to a calling subscriber serviced by a private network group, a method for constructing a WVPN for a CDMA system comprising the steps of:

a first step for registering a private corporate group and short (extension) number to the SCP database 110 (col 4, lines 44-57); and judging whether a call by a certain calling subscriber's terminal CMT corresponds to a PN (personal short extension number) or a regular mobile directory number when a certain calling subscriber 120 calls a certain receiving subscriber 122 of the same corporate group as the calling subscriber in the private wireless office system 142 (col 4, lines 44-60);

a second step for constructing a WVPN (in which the WO Gateway 124 in the private wireless office 142 emulate a PBX/PTN node) in the case that the call by the calling subscriber 120 corresponds to the private extension number PN (col 5, lines 60-66; col 7, lines 55 - col 8, line 20) wherein the second step includes:

a first sub-step for requesting a telephone of the calling subscriber to the HLR/SCP 110, transmitting a telephone number and extension number to the SCP with respect to the calling subscriber (col 6, lines 23-33), requesting a PN information of the receiving subscriber (col 5, lines 60-65), and judging whether there is a corporate group of the telephone number of the calling subscriber (col 5, lines 65-67);

a second sub-step for judging whether the extension number transmitted to the SCP exists in the corporate group of the calling subscriber in the case that when there is the group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step (col 8, lines 1-20);

a third sub-step for constructing the WVPN by transmitting the MDN corresponding to the receiving extension number to the MSC in the case that the extension number exists in the group of the calling subscriber as a result of the judgement of the second sub-step (col 8, lines 1-20; col 6, lines 30-33).

However, the cited prior art fails to disclose further a fourth sub-step for transmitting a non-available call connection guide message to the calling subscriber in the case that there is not a group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step and in the case that the extension number

Art Unit: 2684

does not exist in the group of the calling subscriber as a result of the judgement of the second sub-step.

Regarding claim 6, the cited prior art, Widergen discloses a method for constructing a WVPN (Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone 122 serviced by a private network group PTN 108, a BTS (Base Transceiver System) in 114 for transmitting and receiving a message with the mobile telephone, a BSC(Base Station Controller) in 114 for managing the BTS, a MSC 112 (Mobile Switching Center) including a MSA (Mobile Signaling access), a MCC (Mobile Call Control) inherently therein, and a VLR (Visitor Location Register) (col 4, lines 67), a HLR (Home Location Register) 110, and a SCP (Services Control Point) 110 comprising the steps of:

a first step for registering a private corporate group and short (extension) number to the SCP database 110 (col 4, lines 44-57); and judging whether a call by a certain calling subscriber's terminal CMT corresponds to a PN (personal short extension number) or a regular mobile directory number when a certain calling subscriber 120 calls a certain receiving subscriber 122 of the same corporate group as the calling subscriber in the private wireless office system 142 (col 4, lines 44-60);

a second step for constructing a WVPN (in which the WO Gateway 124 in the private wireless office 142 emulate a PBX/PTN node) in the case that the call by the calling subscriber 120 corresponds to the private extension number PN (col 5, lines 60-66; col 7, lines 55 - col 8, line 20) wherein the second step includes:

a first sub-step for requesting a telephone of the calling subscriber to the HLR/SCP 110, transmitting a telephone number and extension number to the SCP with respect to the calling subscriber (col 6, lines 23-33), requesting a PN information of the receiving subscriber (col 5, lines 60-65), and judging whether there is a corporate group of the telephone number of the calling subscriber (col 5, lines 65-67);

a second sub-step for judging whether the extension number transmitted to the SCP exists in the corporate group of the calling subscriber in the case that when there is the group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step (col 8, lines 1-20);

a third sub-step for constructing the WVPN by transmitting the MDN corresponding to the receiving extension number to the MSC in the case that the extension number exists in the group of the calling subscriber as a result of the judgement of the second sub-step (col 8, lines 1-20; col 6, lines 30-33).

However, the cited prior art fails to disclose further a fourth sub-step for transmitting a non-available call connection guide message to the calling subscriber in the case that there is not a group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step and in the case that the extension number does not exist in the group of the calling subscriber as a result of the judgement of the second sub-step and in the case that the extension number exists in the group of the calling subscriber as a result of the judgement of the second sub-step.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably